



# Acquisition Directorate

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## Assistant Commandant for Acquisition

# SENTINEL Class Patrol Boat Media Round Table

RADM Gary T. Blore, Assistant Commandant for Acquisition  
CAPT Richard Murphy, SENTINEL Class Project Manager

v1.1



# SENTINEL Acquisition Strategy

## Lessons Learned/Best Practices

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- **Proven, in-service parent craft design**
  - At least two vessels in patrol boat service for one year; or
  - One vessel in patrol boat service for at least six years
- **Fixed/Detailed design requirements**
- **Use of State-of-the-Market Technology**
- **Design, Build and Class to American Bureau of Shipping (ABS) – High Speed Naval Craft (HSNC) Guide**
- **Combine design and production to limit schedule impacts**

# SENTINEL Acquisition Strategy

## Lessons Learned/Best Practices

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- **Full & Open Competition**
- **Fixed Price, Best Value / Trade-Off**
- **Contract for 1/3/4 or 6 (Lead, 3 LRIP, with options for 4 or 6 each FY for a maximum of 24-34 cutters)**
- **Option Data & License Package – Ability to Re-compete**
- **Leverages Coast Guard Patrol Boat expertise and lessons learned from past USCG Patrol and Small Boat Acquisition programs**



# Source Selection Organization

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- **Source Selection Authority (SSA)**
- **Competitive Acquisition Management Panel (CAMP)**
- **Source Evaluation Board (SEB) Chair**
- **SEB Members and SEB Advisors**
- **Proposal Evaluation & Analysis Group (PEAG)**
  - Evaluation Teams
    - Management (MET)
    - Technical (TET)
    - Price (PET)

# Evaluation Criteria

<u>Management</u>	<u>Technical</u>	<u>Price</u>
<ul style="list-style-type: none"><li>• Production Capability</li></ul>	<ul style="list-style-type: none"><li>• Mission effectiveness</li></ul>	<ul style="list-style-type: none"><li>• Completeness</li></ul>
<ul style="list-style-type: none"><li>• Past Performance</li></ul>	<ul style="list-style-type: none"><li>• Cutter Boat Launch &amp; Recovery</li></ul>	<ul style="list-style-type: none"><li>• Reasonableness</li></ul>
<ul style="list-style-type: none"><li>• Past Experience</li></ul>	<ul style="list-style-type: none"><li>• Performance, Including Flank Speed</li></ul>	<ul style="list-style-type: none"><li>• Cost Realism</li></ul>
<ul style="list-style-type: none"><li>• Organization &amp; Management</li></ul>	<ul style="list-style-type: none"><li>• Transition - Parent Craft to FRC-B</li></ul>	<ul style="list-style-type: none"><li>• Unbalanced Pricing</li></ul>

Management and Technical are equal in importance, but each are significantly more important than Price.

# Parent Craft – Damen Stan Patrol 4708

- **Damen Shipyards Group** – Internationally recognized ship designer with more than 30 shipyards and related companies worldwide. 4000 Damen vessels in service since founded in 1929.
- 3 craft operated by South Africa since 2004.



# Parent Craft – Damen Stan Patrol 4708

- Most recent in the Damen Stan Patrol series.
- First in class built 2004.

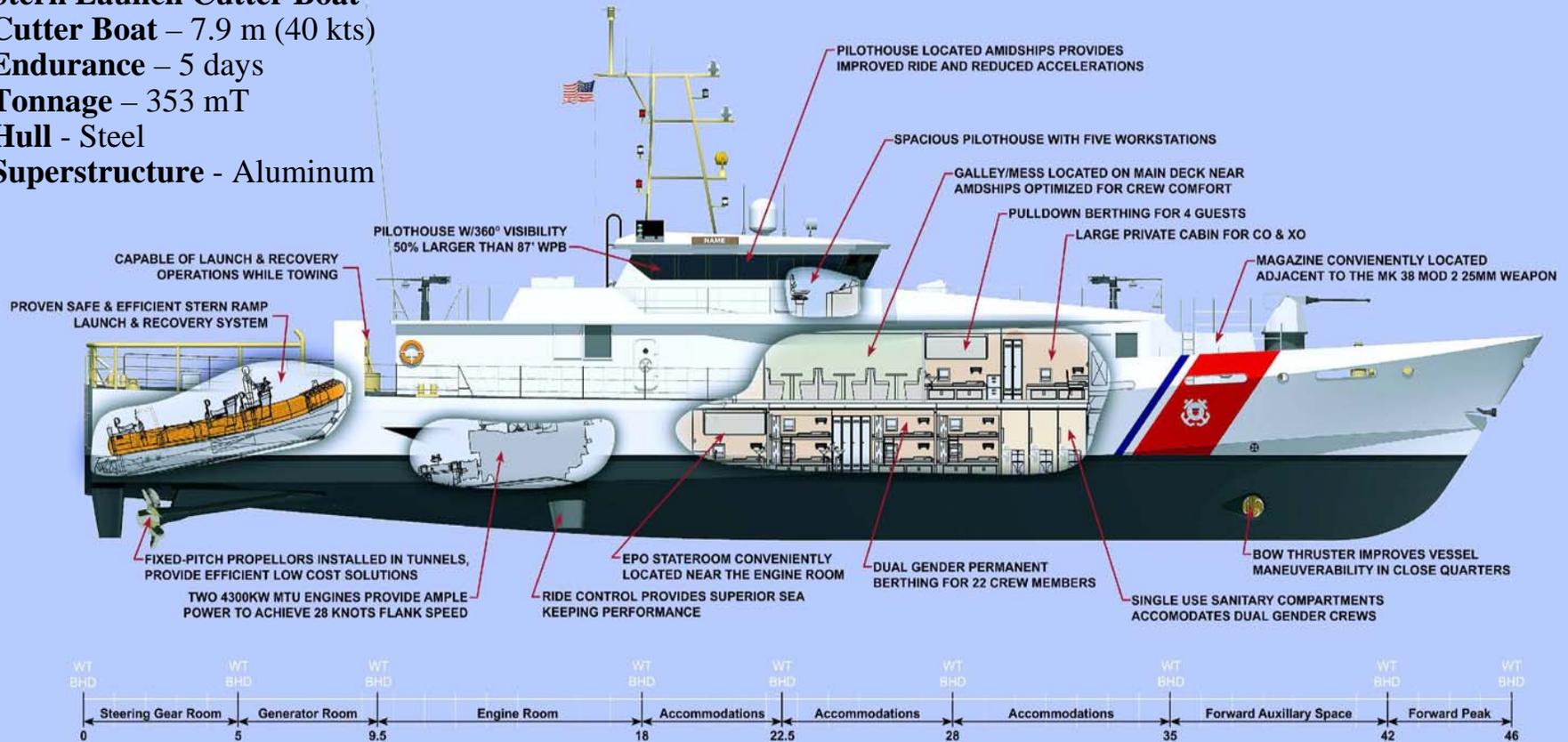
<b>Stan Patrol Series</b>	<b>Location</b>	<b>Delivered</b>	<b>Quantity</b>
<b>4100</b>	<b>Netherlands, Antilles and Aruba</b>	<b>1998-99</b>	<b>3</b>
<b>4207</b>	<b>United Kingdom</b>	<b>2001-03</b>	<b>4</b>
<b>4207</b>	<b>Netherlands</b>	<b>2001-03</b>	<b>2</b>
<b>4708</b>	<b>South Africa</b>	<b>2004-05</b>	<b>3</b>
<b>4100</b>	<b>Vietnam</b>	<b>2004-05</b>	<b>3</b>
<b>4207</b>	<b>Jamaica</b>	<b>2005</b>	<b>3</b>
<b>4207</b>	<b>Barbados</b>	<b>2007</b>	<b>2</b>
		<b>Total</b>	<b>20</b>

# SENTINEL Class Patrol Boat

**Length** – 153.5 ft  
**Draft** – 9.5 ft  
**Flank Speed** – 28+ knots  
**Crew** - 22  
**Stern Launch Cutter Boat**  
**Cutter Boat** – 7.9 m (40 kts)  
**Endurance** – 5 days  
**Tonnage** – 353 mT  
**Hull** - Steel  
**Superstructure** - Aluminum

**Parent Craft** - Damen STAN Patrol 4708

**Damen** - Internationally recognized ship designer.  
 30+ shipyards/related companies worldwide. 4000  
 Damen vessels in service since founded in 1929.



# Bollinger Shipyard/USCG/USN Patrol Boat New Construction

- **Lockport, LA** – 2500 employees at 13 shipyards.
- **Constructed 130 patrol boats for the USCG & USN since 1985**
- **USCG 110' Island Class Patrol Boat**
  - Delivered 49 cutters between 1985 – 1992.
  - Vosper Thornycroft parent craft modified by Bollinger.
- **USN Patrol Coastal – 170/179' Cyclone Class Patrol Boat**
  - Delivered 14 ships between 1993 – 2000.
  - Vosper Thornycroft parent craft design modified by Bollinger.
  - Firm Fixed Price contract.
- **USCG 87' Coastal Patrol Boat**
  - Delivered 67 CPB's between 1998 – 2008.
  - Damen STAN 2600 parent craft modified by Bollinger to include stern small boat launch and recovery system. It was designed in accordance with ABS “Guide of building and Classing High Speed Crafts”.
  - Firm Fixed price contract (w/ economic price adjustment).
  - Highly successful, model contract that delivered on time, under budget and met all performance requirements.



# SENTINEL/123 Contrast

- **SENTINEL**

- New Construction.
- Parent Craft design.
- Direct Contractor Relationship.
- Technical Authority extensively involved.
- Detailed Technical Requirements.
- Parent Craft designer and builder on Bollinger engineering team.
- 87' CPB Damen design.
- Contract Type (FFP with EPA)
- Independent Verification.
- On-site PRO.
- Gulf Coast PRO.
- ABS Class to HSNCG.
- Navy Partnerships

- **123' Conversion**

- Retrofit.
- Limited involvement by the original designer.
- 2nd tier contractor (ICGS/NGSS/Bollinger).
- Performance Requirements.
- No on-site PRO.
- Industry self-certification of design and build standards.



# Schedule

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- **Lead Cutter Delivery – Fall 2010.**
- **3 Low Rate Initial Production – Post Critical Design Review.**
- **4/6 Full Rate Production – 5 option periods.**
- **12<sup>th</sup> Cutter Delivery – Fall 2012.**

# Summary

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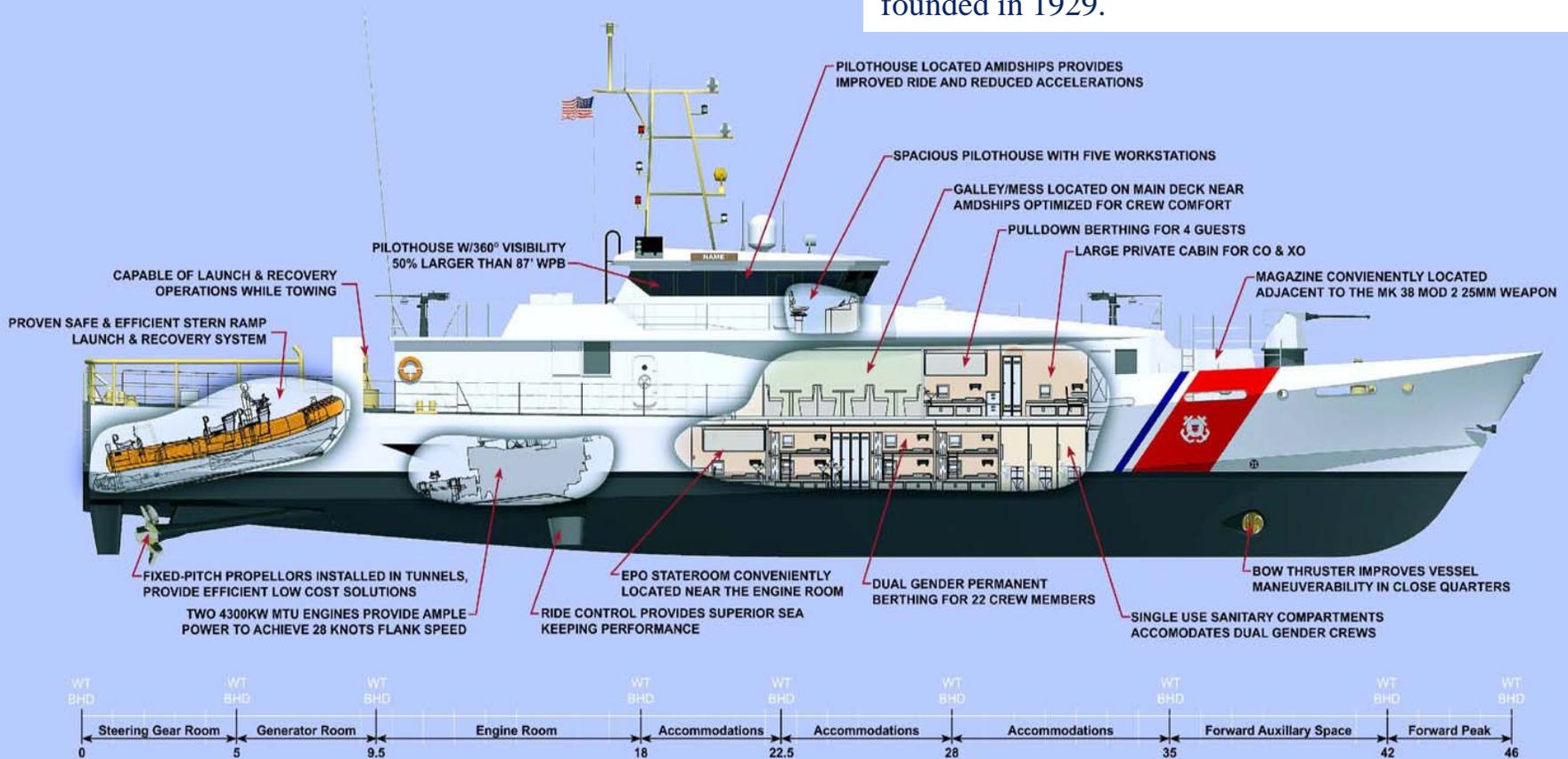
- **Superb new patrol boat.**
- **21<sup>st</sup> Century design.**
- **Acquisition reform has made a difference.**
  - Technical Authority
  - Detailed Design Requirements
  - Direct Contract relationship
  - Sponsor Engagement
  - Designer Participation
  - ABS Class
  - Navy Partnership
  - Independent Third Party Review
- **Right choice.**

# SENTINEL Patrol Boat

[www.uscg.mil/acquisition/sentinel](http://www.uscg.mil/acquisition/sentinel)

**Parent Craft – Damen STAN Patrol 4708**

**Damen** - Internationally recognized ship designer with 30+ shipyards and related companies worldwide. 4000 Damen vessels in service since founded in 1929.



# Capabilities

	<b>Selected FRC-B</b>	<b>FRC-B Requirement</b>
<b>Length</b>	153.5 ft	120 – 160 ft
<b>Draft</b>	9.5 ft	10 ft max.
<b>Flank Speed</b>	28+ knots	28 knots min.
<b>Tonnage</b>	353 mT	none
<b>Cutter Boat Launch/Recovery</b>	Stern	Stern or Crane
<b>Cutter Boat</b>	7.9 m	7.9 m
<b>Hull/Superstructure</b>	Steel/Alum.	Steel/Alum./FRP
<b>Accommodations - Permanent</b>	22	22
<b>Endurance</b>	5 days	5 days